1/3

100

HOST COMPUTER —102

104 — PRIMARY DATA VOLUME

DATA PROTECTION SYSTEM —106

108 — SECONDARY DATA VOLUME

FIG. 1A

120

HOST COMPUTER —102

DATA PROTECTION SYSTEM —106

104 — PRIMARY DATA VOLUME

108 — SECONDARY DATA VOLUME

FIG. 1B

140

HOST COMPUTER —102

SWITCH —142

104 — PRIMARY DATA VOLUME

DATA PROTECTION SYSTEM —106

108 — SECONDARY DATA VOLUME

FIG. 1C

POLICY-BASED RETENTION   APIT WINDOW
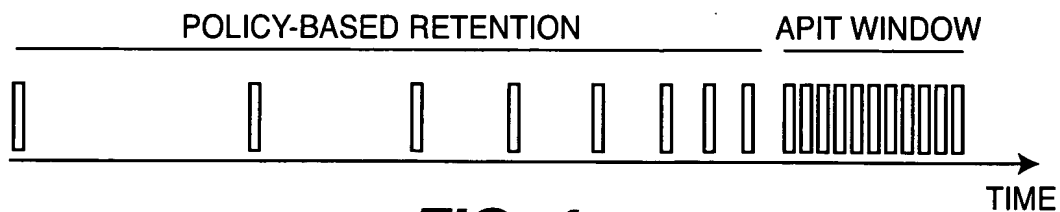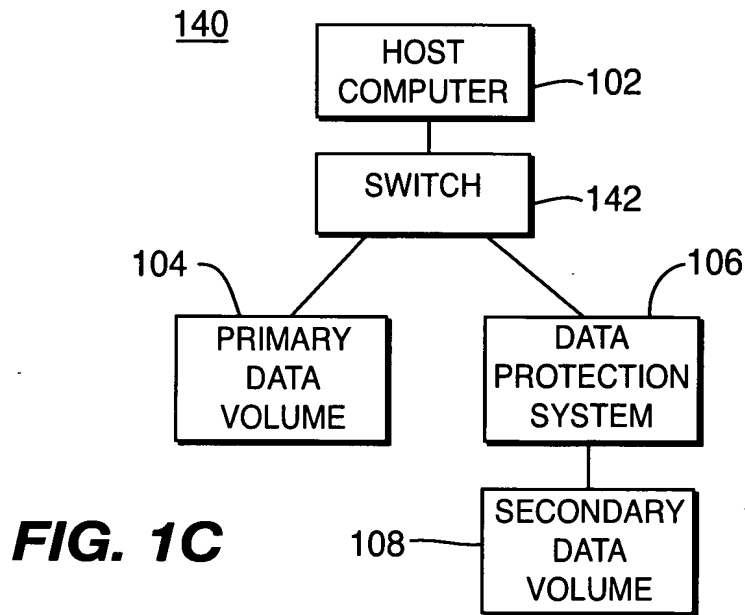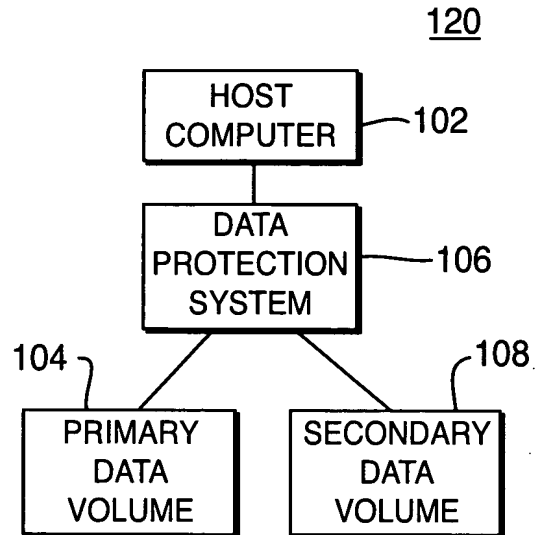
TIME

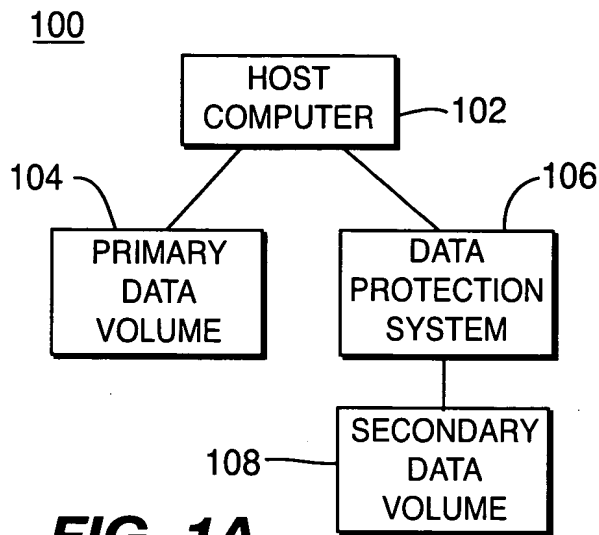**FIG. 4**

DELTA MAP FORMAT

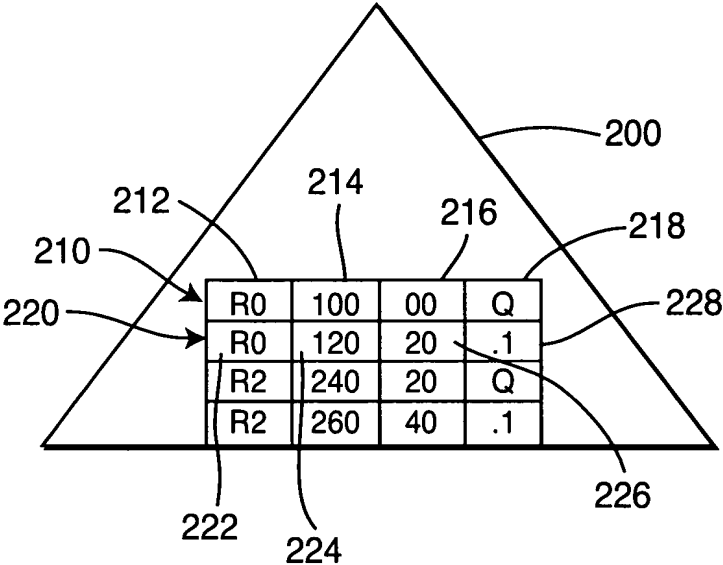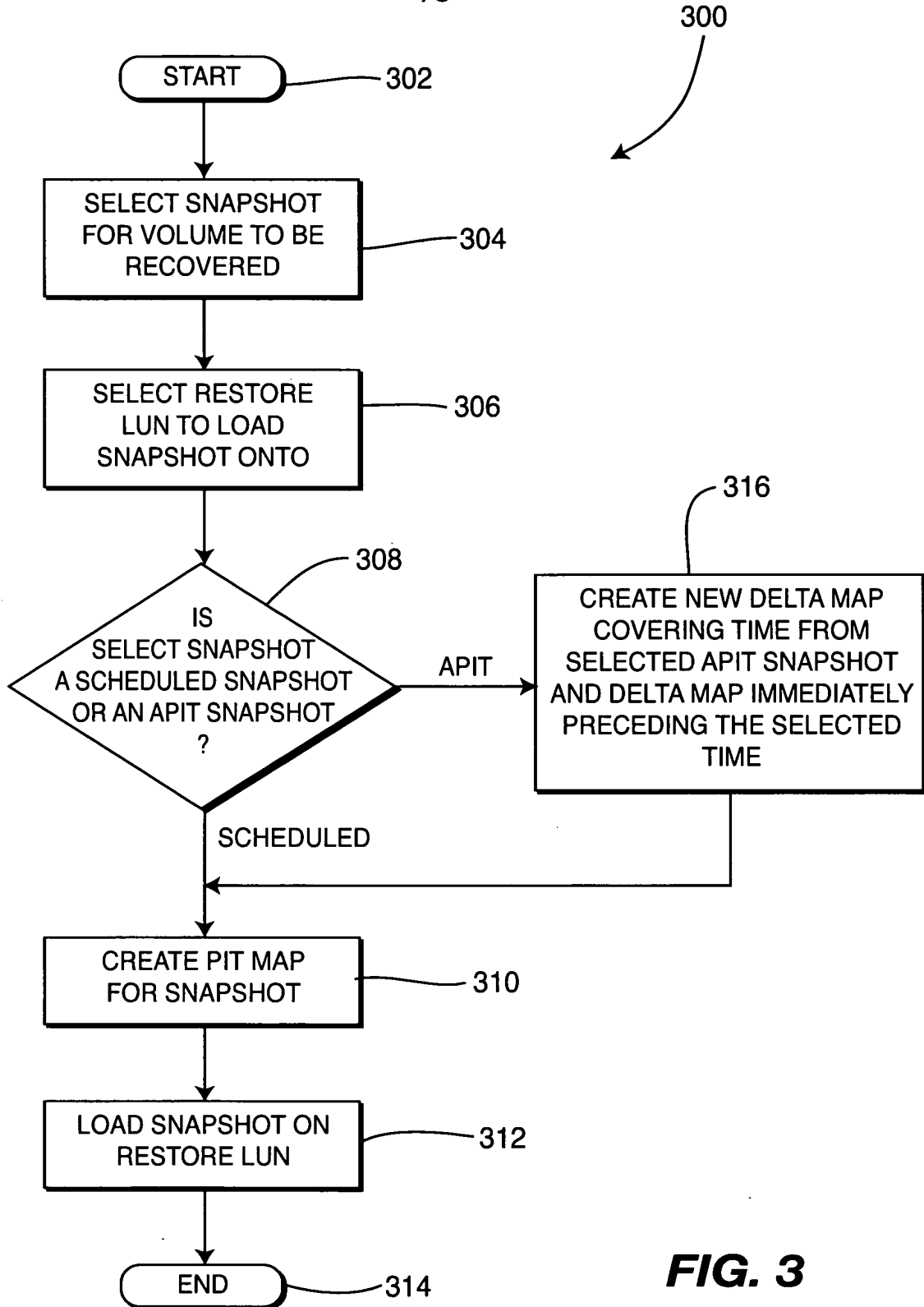| REGION | OFFSET | OFFSET ON SECONDARY | PHYSICAL DEVICE |

.1 = NO PHYSICAL DEVICE USAGE

R0	100	00	Q
R0	120	20	.1
R2	240	20	Q
R2	260	40	.1

FIG. 2

300

START — 302

SELECT SNAPSHOT
FOR VOLUME TO BE
RECOVERED — 304

SELECT RESTORE
LUN TO LOAD
SNAPSHOT ONTO — 306

308

IS
SELECT SNAPSHOT
A SCHEDULED SNAPSHOT
OR AN APIT SNAPSHOT
?

APIT →

316

CREATE NEW DELTA MAP
COVERING TIME FROM
SELECTED APIT SNAPSHOT
AND DELTA MAP IMMEDIATELY
PRECEDING THE SELECTED
TIME

SCHEDULED

CREATE PIT MAP
FOR SNAPSHOT — 310

LOAD SNAPSHOT ON
RESTORE LUN — 312

END — 314

FIG. 3